(CAA-01784 000001

PATH.	. 6447.00	

Action Log Report

Page 1 of 9

2019/09/10

Report Date:

Water outfall, Chalk River Laboratories (AECL), Ottawa River, Deep River

Habitat File No:

Receive Date:

2014/11/14

Activity:

14-HCAA-01784

PATH File No:

Note to File

Document Date: Action ID No.: Action Date:

3 October 03, 2017

Description:

From:

Action:

Status has changed from: Active To Completed By: Taskey, Lorraine

No Change/No Action Required for this Activity

0.00

Authorization Rationale:

Time Spent (Hrs):

Expiry Date - HADD/Serious Harm: Effective Date:

Included in List of Records: Compensation/Offsetting Expiry Date - Other:

Species at Risk:

Fisheries & Oceans
Peches et Océans

Correspondence - Do not go to Macro Access Screen Action Date:

Action Date: Dec Document Date:

> Klukas, Martin Boyter, Dana

> > Description:

From:

Activity:

December 03, 2014

From: Fisheries Protection

Sent: December 3, 2014 10:10 AM

To: Klukas, Martin

Subject: RE: DFO Reviews/Approvals for Outfall Drain Rehabilitation at Chalk River Laboratories

Martin,

fish and fish habitat. Or standard procedure is to access our Fisheries Protection Program website and The project sounds pretty straight forward and as you have detailed would likely have minimal impact to do a Self-Assessment. If needed then a Request for Review form can be submitted for DFO review. However, I think your project would be covered under Self-Assessment under:

Drainage, Flooding and Erosion Control, Stormwater and Wastewater Management Project activities and criteria where DFO review is not required Water Outfalls

Construction of, and repairs to, water outfalls

No temporary or permanent increase in existing footprint below the High Water Mark

No new temporary or permanent fill placed below the High Water Mark

«All removal activities

urther...

that support fish that are part of or that support a commercial, recreational or Aboriginal fishery. Following Minister of Fisheries and Oceans Canada. This applies to work being conducted in or near waterbodies The Fisheries Act requires that projects avoid causing serious harm to fish unless authorized by the the measures to avoid harm will help you comply with the Act.

We request that you visit our website at www.dfo-mpo.gc.ca/habitat and undertake a Self-Assessment to determine if DFO needs to review your project.



Habitat File No:

If your project IS NOT in one of the listed waterbody types, and its activities ARE NOT listed, nor does it meet the associated criteria (if applicable), you may submit a Request for Review to DFO before proceeding further.

If you are UNSURE about whether your project requires DFO review, you can seek support from a qualified environmental professional.

Any more questions or concerns please contact me.

Thank you

Dana.Boyter@dfo-mpo.gc.ca <mailto:Dana.Boyter@dfo-mpo.gc.ca> Fisheries Protection Biologist Dana Boyter

905 336-6298

Fisheries Act violations (occurrences) and information requests are managed in Central and Arctic Region Fisheries and Oceans Canada has changed the way new project proposals (referrals), reports of potential habitat, please submit to fisheriesprotection@dfo-mpo.gc.ca <mailto:fisheriesprotection@dfo-mpo.gc.ca>. (Alberta, Saskatchewan, Manitoba, Ontario, Nunavut and the Northwest Territories). Please be advised where you have determined, following self-assessment, that you cannot avoid impacts to fish and fish self-assessment tools that enable you to determine Fisheries Act requirements are available at DFO's <http://www.dfo-mpo.gc.ca/pnw-ppe/index-eng.html>. For all occurrence reports, or project proposals that general information regarding the management of impacts to fish and fish habitat and "Working Near Water" website at www.dfo-mpo.gc.ca/pnw-ppe/index-eng.html For general inquiries you can also call 1 855 852-8320.

Water outfall, Chalk River Laboratories (AECL), Ottawa River, Deep River Habitat File No: 14-HCAA-01784

Receive Date:

2014/11/14

From: Hoggarth, Thomas

Sent: November 18, 2014 7:40 AM

To: Fisheries Protection; Klukas, Martin

Cc. Thomas, Jennifer

Subject: FW: DFO Reviews/Approvals for Outfall Drain Rehabilitation at Chalk River Laboratories

Martin

have forwarded your request to our triage group for action.

C. Thomas Hoggarth

Thomas.Hoggarth@dfo-mpo.gc.ca <mailto:Thomas.Hoggarth@dfo-mpo.gc.ca> Phone 905 336-4764

Cell 905 220-4836

From: Klukas, Martin [<mailto:martin.klukas@cnl.ca>]

Sent: November 14, 2014 4:09 PM

To: Hoggarth, Thomas

Cc. Gallagher, Christine; Bauer, Gerald; Winter, Anthony

Subject: DFO Reviews/Approvals for Outfall Drain Rehabilitation at Chalk River Laboratories

Thomas:

Christine Gallagher of Chalk River Laboratories, whom you met last week at the COG workshop, provided me with your contact information.

We would like to discuss with DFO the review/approvals required for the rehabilitation of the Sanitary Sewage Outfall Drain at the Chalk River Laboratories Site.

2014/11/14

installation of a new liner into the existing pipe. A description of the installation process is provided below. A schematic showing the location of the pipe are attached. The process will have minimum impact on the is a 300 mm diameter corrugated steel pipe that is severely deteriorated. The outfall restoration involves The Sanitary Sewer outfall extends approximately 90 m into the Ottawa River. The existing outfall drain river bed.

Please advise if you are available to discuss DFO review/approvals for the Outfall Drain Rehabilitation. not, could you point us to the correct DFO contact.

### Thanks

Environmental Analyst, Environmental Protection Branch, Martin Klukas@CNL.ca <mailto:Martin Klukas@CNL.ca> Canadian Nuclear Laboratories Tel613 584 8811ext 46400 Martin Klukas,

# **OUTFALL DRAIN REHABILITATION**

The following provides a summary of the proposed works for the Outfall Drain at the Chalk River CNI. Site. The following provides a brief summary of the existing outfall drain.

- diving and topographical survey technologies were completed (as much as possible) confirming the pipe's and is in need of imminent repair. In December 2013, a site investigation consisting of CCTV, in water The existing pipe is a 300mm diameter corrugated steel pipe (CSP) that is severely deteriorated Sondition.
- The pipe starts at access structure 4D-11 and runs east into the Ottawa River where it discharges the treated sanitary sewage.
  - The pipe is 153.9m long. 46.6m from structure 4D-11 is another structure (4D-12).
- About 65m of the outfall drain is located on land (maximum depth is 4.5m), with the remaining

Habitat Management

900000

88.9m buried under the river bed, below the water surface. The outlet does not have a diffuser. Proposed work for Outfall Drain Rehabilitation:

Structure 4D-12 will be removed and a new structure built at the same location. This will require some shrub removal, excavation and building of a precast concrete structure segments, 1200mm diameter. All on land. The ground will be restored with topsoil and seed and mulch.

A new structure will be installed about 15m downstream of structure 4D-11. This is required for the excavating at this location to about a 3 m depth, and a new precast concrete structure installed. Ground new tie in point for the new sanitary sewage treatment plant discharge. This will be completed by will be restored with topsoil and either sodding or seed and mulch.

water/steam. No compounds will be allowed to be released into the Ottawa River. All would be collected From structure 4D-11to 4D-12, this section will be lined with a Cured-in-Place Liner by inserting at disposed of appropriately. The curing of the liner will be done either by using a UV light train or heated operation will be removed, all done from within the pipe, collected from structure 4D-11 or 4D-12 and 4D-11and moving towards 4D-12. The CSP will be cleaned and any items that will impact the liner at the structures and disposed of appropriately.

open to a size just enough to allow the new 300mm HDPE pipe to be inserted. This will all happen at the be set up in structure 4D-12. The pipe bursting machine will be pulled through the existing CSP cutting it From structure 4D-12 to the outlet in the Ottawa River, this will be completed by pipe bursting. The HPDE pipe is attached directly to the pipe bursting machine, thus the insertion is completed in one pass. bursting machine will have some river bed impact but in a very small area. The 300mm diameter HDPE first step will require the placement of a stringer (small line inside the CSP) that will be used to attach a pipe bursting machine will be set up at the outlet drain outlet point. The winch or pulling mechanism will same time. The pipe bursting machine will be pulled from the outlet point back to structure 4D-12, the insertion. A barge will be set up to assist in the pipe bursting operation. With the assist of divers, the method. Directly at the outfall drain outlet point, the divers and insertion of the 300mm diameter pipe No disruption to the river bed will occur along the alignment of the outfall drain underwater using this pulling cable for the pipe bursting machine when ready for insertion. The intent is to install a 300mm diameter HDPE pipe will be fused together into a 107.3 m long piece on land and then floated out to the Outfall Drain outlet point when ready for the vipe would remain on the water surface until inserted into the 300mm CSP. 2014/11/14

Receive Date:

Habitat Management

Warming, Information in PATH may be private and/or sensitive and should not be shared without appropriate consultation and/or permission. Refer to the Data and System Security section of the PATH Helpfiles for details.

Water outfall, Chalk River Laboratories (AECL), Ottawa River, Deep River Habitat File No:

Expiry Date - HADD/Serious Harm: Expiry Date - Other: Effective Date:

Included in List of Records: Species at Risk: Compensation/Offsetting:

Triage - Web Self-Assessment Can be Used

0.00

14-HCAA-01784

PATH File No:

Action:

Authorization Rationale: Time Spent (Hrs):

Water outfall, Chalk River Laboratories (AECL), Ottawa River, Deep River 14-HCAA-01784 PATH File No:

Habitat File No:

Receive Date:

Activity:

Correspondence - Do not go to Macro Access Screen

Document Date: Action ID No.: Action Date:

November 14, 2014

Description:

From

From: Klukas, Martin [<mailto:martin.klukas@cnl.ca>]

Sent: November 14, 2014 4:09 PM

To: Hoggarth, Thomas

Cc. Gallagher, Christine; Bauer, Gerald; Winter, Anthony

Subject DFO Reviews/Approvals for Outfall Drain Rehabilitation at Chalk River Laboratories

### Thomas:

Christine Gallagher of Chalk River Laboratories, whom you met last week at the COG workshop, provided me with your contact information.

Ne would like to discuss with DFO the review/approvals required for the rehabilitation of the Sanitary Sewage-Outfall Drain at the Chalk River Laboratories Site. The Sanitary Sewer outfall extends approximately 90 m into the Ottawa River. The existing outfall drain is a 300 mm diameter corrugated steel pipe that is severely deteriorated. The outfall restoration involves installation of a new liner into the existing pipe. A description of the installation process is provided below. A schematic showing the location of the pipe are attached. The process will have minimum impact on the river bed.

Please advise if you are available to discuss DFO review/approvals for the Outfall Drain Rehabilitation. If not, could you point us to the correct DFO 

### Thenks

### Martin Klukas

Environmental Analyst, Environmental Protection Branch, Martin Klukas@CNL.ca < mailto:Martin.Klukas@CNL.ca> Canadian Nuclear Laboratories Tel 613 584 8811 ext 46400

## **OUTFALL DRAIN REHABILITATION**

The following provides a summary of the proposed works for the Outfall Drain at the Chalk River CNL. Site. The following provides a brief summary of he existing outfall drain.

- The existing pipe is a 300mm diameter corrugated steel pipe (CSP) that is severely deteriorated and is in need of imminent repair. In December 2013, a site investigation consisting of CCTV, in water diving and topographical survey technologies were completed (as much as possible) confirming the pipe's condition.
- The pipe starts at access structure 4D-11 and runs east into the Ottawa River where it discharges the treated sanitary sewage.

  The pipe is 153.9m long, 46.6m from structure 4D-11 is another structure (4D-12).

  About 65m of the outfall drain is located on land (maximum depth is 4.5m), with the remaining 88.9m buried under the river bed, below the water Proposed work for Outfall Drain Rehabilitation: surface. The outlet does not have a diffuser.
  - Structure 4D-12 will be removed and a new structure built at the same location. This will require some shrub removal, excavation and building of

Fisheries & Oceans Pêches et Océans

Warning Information in PATH may be private and/or sensitive and should not be shared without appropriate consultation and/or permission. Refer to the Data and System Security section of the PATH Helpflies for details.

600000

Receive Date:

Habitat File No:

a precast concrete structure segments, 1200mm diameter. All on lend. The ground will be restored with topsoil and seed and mulch.

A new structure will be installed about 15m downstream of structure 4D-11. This is required for the new tie in point for the new sanitary sewage treatment plant discharge. This will be exceeded by excavating at this location to about a 3 m depth, and a new precast concrete structure installed. Ground will be restored with topsoil and either sociding or seed and mulch.

From structure 4D-11 to 4D-12, this section will be lined with a Cured-in-Place Liner by inserting at 4D-11 and moving towards 4D-12. The CSP will be cleaned and any items that will impact the liner operation will be removed, all done from within the pipe, collected from structure 4D-12 and disposed of appropriately. The curing of the liner will be removed, all done from within the pipe, collected from structure 4D-12 and disposed of appropriately. The curing of the liner will be considered by using a LIV light train or heated water/steam. No compounds will be allowed to be released into the Ottawa River, this will be completed by pipe bursting. The first step will require the placement of a stringer (small line inside the CSP) that will be used to attach a pulling cable for the pipe bursting machine when ready for insertion. The intent is to install a 300mm diameter HDPE pipe inside the 300mm diameter CSP. The HDPE pipe will be set up at the outlet drain outlet point. The winch or pulling mechanism will be set up at the outlet drain outlet point. The winch or pulling mechanism will be set up at the outlet drain outlet point. The winch or pulling mechanism will be set up in the outlet drain outlet point. The winch or pulling mechanism will be set up in the outlet drain outlet point. 4D-12. The pipe bursting mechine will be pulled through the existing CSP cutting it open to a size just enough to allow the new 300mm HDPE pipe to be inserted. This will all happen at the same time. The pipe bursting machine will be pulled from the outlet point back to structure 4D-12, the HPDE pipe is attached directly to the pipe bursting machine, thus the insertion is completed in one pass. No disruption to the river bed will occur along the alignment of the outfall drain underwater using this method. Directly at the outfall drain outlet point, the divers and insertion of the 300mm diameter pipe bursting machine will have some river bed impact but in a very small area. The 300mm diameter HDPE pipe would remain on the water surface until inserted into the 300mm CSP.

Effective Date: Triage - Request for Review Form/Proxy Received

Action:

Expiry Date - HADD/Serious Harm; Expiry Date - Other:

included in List of Records: Compensation/Offsetting

Species at Risk:

Authorization Rationale: Time Spent (Hrs);

0.00

15-HCAA - 00299

Habitat Management

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Action Log Report

Page 1 of 6

2019/09/10

Report Date:

Receive Date:

2015/03/13

March 24, 2015

Document Date:

Action ID No.: Action Date:

Habitat File No:

Hydrant Installation, Ottawa River, Rolphton, Ontario

15-HCAA-00299

PATH File No:

From:

Activity:

Description:

Action:

Note to File

Status has changed from: Active To Completed By: Kirlluk, Rick

Effective Date: No Change/No Action Required for this Activity

Expiry Date - HADD/Serious Harm. Expiry Date - Other:

Included in List of Records: Compensation/Offsetting.

0.00

Authorization Rationale:

Time Spent (Hrs):

Species at Risk:

Fisheries & Oceans
Péches et Oceans

ž	Hydrant Installation, Ottawa River, Rolphton, Ontario	, Ontario Receive Date: 2015/03/13	Receive Date:	2015/03/13
PATH File No:	15-HCAA-00299	Habitat File No:		<del>nagri in</del>
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Activity

Correspondence - Do not go to Macro Access Screen A

Action ID No.: n Action Date: Document Date:

March 24, 2015

Description:

From:

From: Fisheries Protection

Sent: March-24-15 2:12 PM

To: Gallagher, Christine

Subject: RE: Request for Project Review

Dear Ms. Gallagher:

Subject: Serious harm to fish can be avoided or mitigated.

Hydrant Installation, Ottawa River, Rolphton, Ontario

DFO File #: 15-HCAA-00299

hydrant installation proposal which has been reviewed under the Fisheries Act and the Species at Risk The Fisheries Protection Program (the Program) of Fisheries and Oceans Canada received your dry

measures, and a Permit under the Species at Risk Act is not required since there are no Species at Risk Based on the information provided, your proposal has been identified as a project where a Fisheries Act near the project site. Proposals in this category are not considered to need an authorization from the authorization is not required given that serious harm to fish can be avoided by following standard Program under the Fisheries Act in order to proceed In order to comply with the Fisheries Act, it is recommended that you follow our guidance tools which can be found at the following website

(<<http://www.dfo-mpo.gc.ca/pnw-ppe/measures-mesures/index-eng.html>>). It remains your responsibility to meet the other requirements of federal, provincial and municipal agencies.

Fisheries Act, and that you meet the requirements under the Species at Risk Act as it may apply to your project. Should your plans change or if you have omitted some information in your proposal such that It remains your responsibility to ensure you avoid causing serious harm to fish in compliance with the



	CAMPINE THE TANK THE		
Title	Hydrant Installation, Ottawa River, Rolphton, Ontario Receive 1	hate: 2015/	115/03/13
PATH File No:	15-HCAA-00299		
According to the second designation of the s			

(<http://www.dfo-mpo.gc.ca/pnw-ppe/index-eng.html>), you should complete and submit the request for your proposal meets the criteria for a site specific review, as described on our website review form that is also available on the website.

serious harm to fish that are part of or support a commercial, recreational or Aboriginal fishery. Such Please be advised that it is also your Duty to Notify DFO if you have caused, or are about to cause, notifications should be directed to

<http://www.dfo-mpo.gc.ca/pnw-ppe/violation-infraction/index-eng.html>.

Should you have any questions or concerns about the compliance of your proposal with the Fisheries Act and/or those prohibitions of the Species at Risk Act that apply to listed aquatic species, you may wish to engage an environmental professional familiar with measures to avoid impacts to fish and fish habitat (<http://www.dfo-mpo.gc.ca/pnw-ppe/env-pro-eng.html>).

Yours sincerely,

Jennifer Thomas
A/Team Leader, Triage and Planning
Fisheries and Oceans Canada

Fisheries Act violations (occurrences) and information requests are managed in Central and Arctic Region Fisheries and Oceans Canada has changed the way new project proposals (referrals), reports of potential occurrence reports, or project proposals where you have determined, following self-assessment, that you www.dfo-mpo.gc.ca/pnw-ppe/index-eng.html <http://www.dfo-mpo.gc.ca/pnw-ppe/index-eng.html>. For all Alberta, Saskatchewan, Manitoba, Ontario, Nunavut and the Northwest Territories). Please be advised cannot avoid impacts to fish and fish habitat, please submit to fisheriesprotection@dfo-mpa.gc.ca self-assessment tools (e.g. Measures to Avoid Harm) that enable you to determine Fisheries Act that general information regarding the management of impacts to fish and fish habitat and <mailto:fisheriesprotection@dfo-mpo.gc.ca>. For general inquiries call 1 855 852-8320. requirements are available at DFO's "Projects Near Water" website at

Receive Date:

2015/03/13

From: Gallagher, Christine [<mailto:christine.gallagher@cnl.ca>]

Sent: March-13-15 2:50 PM

To: Buck, Kathleen; Hoggarth, Thomas

Cc: Morin, Annie; Baidwan, Robby; Dolinar, George; Vickerd, Meggan; Alkens, Emie; Matasich, Chris Subject: Request for Project Review

# UNRESTRICTED | ILLIMITÉ

### Hi Thomas and Kathleen,

Attached is a request for a project review for work that is occurring at our Rolphton, Ontario site to install a early April and the work will only take ~2 weeks, however, if the area is not thawed at that time it may be dry hydrant. Also attached are some pictures and a map of the area. The current plan is to perform this pushed back (hence the reason for the long construction start and end time on the review form). et us know whether this would be possible.

Regards,

## Christine Gallagher

Environmental Protection Program Manager

+ Building 700, Room 263A, Str. 700D

(613) 584-8811ext 43203

Fax: (613) 584-8232

e-mail: christine.gallagher@cnl.ca <mailto:gallagherc@aecl.ca>

# Please note my new e-mail address

Triage - Regulatory Review NOT Required

Action:

Effective Date:

Expliry Date - HADD/Serious Harm:

Expiry Date - Other:

ncluded in List of Records: Compensation/Offsetting:

Species at Risk:

0.00

Authorization Rationale:

Time Spent (Hrs):

Warning: Information in PATH may be private and/or sensitive and should not be shared without appropriate consultation and/or permission. Refer to the Date and System Security section of the PATH Helpflies for details

Title: Hydrant Installation, Ottawa River, Rolphton, Ontario PATH File No: 15-HCAA-00299

Receive Date:

2015/03/13

Activity:

Correspondence - Do not go to Macro Access Screen Action Date:

March 13, 2015

Document Date:

Action ID No.:

Habitat File No:

Description:

Ta For: From: Gallagher, Christine [mailto:christine.gallagher@cnl.ca]

Sent: March-13-15 2:50 PM

To: Buck, Kathleen; Hoggarth, Thomas

Cc: Morin, Annie; Baidwan, Robby; Dolinar, George; Vickerd, Meggan; Aikens, Ernie; Matasich, Chris Subject: Request for Project Review

## UNRESTRICTED | ILLIMITÉ

### Hi Thomas and Kathleen,

Attached is a request for a project review for work that is occurring at our Rolphton, Ontario site to install a dry hydrant. Also attached are some pictures and a map of the area. The current plan is to perform this early April and the work will only take ~ 2 weeks, however, if the area is not thawed at that time it may be pushed back (hence the reason for the long construction start and end time on the review form). et us know whether this would be possible.

Regards,

# Christine Gallagher

**Environmental Protection Program Manager** 

+ Building 700, Room 263A, Str. 700D

( (613) 584-8811ext 43203

1 Fax: (613) 584-8232

. e-mail: christine.gallagher@cnl.ca <mailto:gallagherc@aecl.ca>

Please note my new e-mail address



Title PATH File No:	Hydrant Installation, Ottawa River, Rolphton, Ontario 15-HCAA-00299		Receive Date:	2015/03/13
Action:	Triage - Request for Review Form/Proxy Received	Effective Date: Expiry Date - HADD/Serious Harm:		
Time Spent (Hrs): Authorization Rationale:	90.0	Expiry Date - Other: Compensation/Offsetting Included in List of Records: Species at Risk:		
Directory: File Name: Document Type (Upload):	DFO Request for Review at NPD FFHPP - Request for Review Form	File Extension: File Size:	pdf 6,153,334	
Directory: File Name: Document Type (Upload):	Fire Hydrant 2015 d): FFHPP - Request for Review - Supporting Documents	File Extension: File Size:	jpg 297,031	
Directory: File Name: Document Type (Upload):	DSCN0273 d): FFHPP - Request for Review - Supporting Documents	File Extension: File Size:	Jpg 196,096	
Directory: File Name: Document Type (Upload):	DSCN0272 d): FFHPP - Request for Review - Supporting Documents	File Extension: File Size;	jpg 105,863	





Pêches et Océans Canada

#### Canada

#### **Request for Review**

#### A) Contact information

Name of Business/Company:	Select additional contact: Contractor/Agency/Consultant (if applicable):
Canadian Nuclear Laboratories (CNL)	The state of the s
Name of Proponent:	
Robby Baidwan	
Mailing address:	Mailing address:
Canadian Nuclear Laboratories 286 Plant Road Mail Stn 845	
City/Town:	City/Town:
Chalk River	
Province/Territory:	Province/Territory;
Ontario	
Postal Code:	Postal Code:
KOJ 1JO ]	
Tel. No. :	Tel. No.:
613-584-3311 ext 44708	
Fax No.:	Fax No.:
Email:	Email:
Robby,Baidwan@cnl.ca	
s the Proponent the main/primary contact? C Yes No No f no, please enter information for the primary contact or any additions	al contact.
Christine Gallagher Christine.Gallagher@cnl.ca 513-584-3311 ext. 43203	



Fisheries and Oceans Canada

Pêches et Océans Canada

Canada

#### B) Description of Project

If your project has a title, please provide it.	
Installation of a dry hydrant at CNL NPD site, Rolphton, ON	
Is the project in response to an emergency circumstance*?  Yes	€ No
Does your project involve work in water?	
If yes, is the work below the High Water Mark*?    Yes	
What are you planning to do? Briefly describe all project components you	are proposing in or near water.
A dry hydrant system is to be installed at the Nuclear Power Demonstr consists of a permanently shut down, partially decommissioned demo first phase of decommissioning all water supply was removed from the decommissioned). The water intake is necessary to supply the local fire at the facility as well as forest fires. The installation of the dry hydrant which utilized National Building Code of Canada (NBCC), National Fire (NFPA) 801 requirements. CNL contracted exp Services Inc. to design to piping below the hydrant to a suitable depth which will be connected desired depth to achieve suitable water level coverage. The local fire dry hydrant installation to their fire truck. The construction of the dry loccur between April 1st, 2015 and June 26th, 2015.	Instration CANDU reactor and associated structures. During the efacility (i.e. pump house was removed from service and edepartment pumper and increase the capability of fighting fires system is the result of a recent Fire Hazard Analysis assessment Code of Canada (NFCC) and National Fire Protection Association the dry hydrant. The hydrant will consist of a vertical section of to the river through a horizontal section of piping installed to the epartment would utilize a portable pump to pump water from the
How are you planning to do it? Briefly describe the construction materials	, methods and equipment that you plan to use.
Superficial vegetation and existing asphalt will be removed from the or All ground surfaces will be evenly graded to reduce ponding areas. All materials and supplies will be to Ontario Provincial Standard Specific materials OPSS 1001 &1010).  The dry hydrant outlet will be installed ~10m from the water edge at a 150mm compacted granular A.  The outlet pipe will be 150mm OD Schedule 40 steel pipe and will be fistrainer, rocker lug threaded plug and chain.  The finished grade elevation at the dry hydrant assembly will be 114.8; rev. 4.  The outlet pipe will be pre-insulated and extend vertically down to an 20mm clear stone will be installed at the connection joint to the intake OD outlet pipe to 200mm OD for attachment of the intake pipe. The intake pipe will be 16m of Schedule 40 PVC pipe (or 20m of HDPE an elevation of 110m (below the 50 yr drought level established at 110 intake pipe will extend into a 600mm by 600mm concrete block at the Reducer and couplers will be used to reduce the 200mm OD to 150mm strainer will be tied down with stainless steel clamp and chain fastened will be anchored to the river bottom for strainer protection. Where the dry hydrant horizontal strainer extends into the river a 2mx3 under the intake, will be installed as per OPSD 810.01.  All grassed areas disturbed during construction will be restored. The desimilar to existing conditions or granular material approved by CNL.	ication (OPSS) standards (i.e. construction OPSS 206 & 314 in elevation of 115.48m in the center of a 3mx3m gravel pad of litted with 150mmOD X 100mmOD female NST thread, internal 3m. The area will be protected by bollards as per 8-5953-ST-32 elevation of 110.95m. A drain away pit with 2 cubic meters of pipe. Reducer and couplers will be used to increase the 150mm DR21) and will be installed by excavation/trenching on a slope to 1.89m). Clear stone again will be used for the pipe bedding. The bottom of the pipe excavation.  The oD for attachment of the dry hydrant horizontal strainer. The it to a concrete weight directly below the strainer. A wire mesh is mip-rap pad, with filter cloth and 150mm rock nominal size
nclude a site plan (figure/drawing) showing all project components in and	near water.
re details attached?   Yes	
ientify which work categories apply to your project.	
Aquaculture Operations	Log Handling / Dumps
Aquatic Vegetation Removal	Log Removal

Fisheries and Oceans Pêches et Océans Canada	Canada
☐ Beaches	☐ Maorings
☐ Berms	☐ Open Water Disposal
☐ Blasting / Explosives	☐ Piers
☐ Boat Houses	☐ Riparian Vegetation Removal
☐ Boat Launches / Ramps	☐ Seismic Work
☐ Breakwaters	☐ Shoreline Protection
☐ Bridges	☐ Stormwater Management Facilities
☐ Cable Crossings	Surface Water Taking
☐ Causeways	☐ Tailings Impoundment Areas
☐ Culverts	☐ Temporary Structures
☐ Dams	☐ Turbines
☐ Dewatering / Pumping	☐ Water Control Structures
☐ Docks	☑ Water Intakes / Fish Screens
☑ Dredging / Excavation	☐ Water Outfalls
☐ Dykes	☐ Watercourse Realignment
☐ Fishways / Ladders	☐ Weirs
☐ Flow Modification (hydro)	☐ Wharves
☐ Groundwater Extraction	☐ Wind Power Structures
☐ Groynes	
☐ Habitat Restoration	☑ Other Please Specify Dry hydrant for fire fighting
☐ Ice Bridges	
Was your project submitted for review to another federal or provincia	al department or agency? ( Yes ( No
if yes, indicate to whom and associated file number(s).	
C) Location of the Project	
Coordinates of the proposed project Latitude	N Longitude W
OR UTM zone 18T	; 294,930 Easting
	5,118,318 Northing
include a map clearly indicating the location of the project as well as	surrounding features.
Name of Nearest Community (City, Town, Village):	Rolphton
Municipality, District, Township, County, Province:	Laurentian Hills, Ontario
Name of watershed (if applicable):	Ottawa River Watershed
Name of watercourse(s) or waterbody(ies) near the proposed project	: Ottawa River

The Nuclear Power Demonstration Waste Facility (NPDWF) sit	te is located 17km north of Deep River, Ontario a	36510 Highway 17,
D) Description of the Aquatic Environment		
dentify the predominant type of aquatic habitat where the projec	ct will take place.	
Estuary (Estuarine)	CLake (Lacustrine)	
Provide a detailed description of biological and physical charac	cleristics of the proposed project site.	
vegetation was noted. The bank substrate was composed of been modified in the past allowing for limited vegetation grows. The Ottawa River width at this location is 500m.	boulders and gravel and signs or erosion were owth.	present. The shoreline has
Typical fish species known to be present in the Ottawa River Perch; Lake Sturgeon; Channel Catfish; Rainbow Smelt; Cisco	Include: Smallmouth Bass; Largemouth Bass; W	alleye; Northern Pike; Yellow
	A shower surier, and rake whiteher	
iclude representative photos of affected area (including upstrea		location of the project.
nolude representative photos of affected area (including upstreat)  Potential Effects of the Proposed Project ave you reviewed the Pathways of Effects (PoE) diagrams (htt	am and downstream area) and clearly identify the	
nclude representative photos of affected area (including upstreat)  Potential Effects of the Proposed Project lave you reviewed the Pathways of Effects (PoE) diagrams (https://escribe.the.type.of.cause-effect.relationships.that.apply.to.your	am and downstream area) and clearly identify the	
nolude representative photos of affected area (including upstreat)  Potential Effects of the Proposed Project  ave you reviewed the Pathways of Effects (PoE) diagrams (https://escribe.the.type.of.cause-effect.relationships.that.apply.to.your	am and downstream area) and clearly identify the	
Potential Effects of the Proposed Project ave you reviewed the Pathways of Effects (PoE) diagrams (https://escribe.the.type.of.cause-effect relationships that apply to your yes, select the PoEs that apply to your project.	am and downstream area) and clearly identify the	nces/index-eng.html) that
clude representative photos of affected area (including upstreat)  Potential Effects of the Proposed Project ave you reviewed the Pathways of Effects (PoE) diagrams (https://escribe.the.type.of.cause-effect relationships that apply to your Yes. C. No yes, select the PoEs that apply to your project.	am and downstream area) and clearly identify the tp://www.dfo-mpo.gc.ca/pnw-ppe/pathways-seque r project?	nces/index-eng.html) that
Potential Effects of the Proposed Project  ave you reviewed the Pathways of Effects (PoE) diagrams (https://excribe.the.type.of.cause-effect relationships that apply to your yes, select the PoEs that apply to your project.  Addition or removal of aquatic vegetation  Change in timing, duration and frequency of flow	am and downstream area) and clearly identify the tp://www.dfo-mpo.gc.ca/pnw-ppe/pathways-sequent project?	nces/index-eng.html) that
clude representative photos of affected area (including upstreat)  Potential Effects of the Proposed Project  ave you reviewed the Pathways of Effects (PoE) diagrams (https://escribe.the.type.of.cause-effect relationships that apply to your  Yes No  yes, select the PoEs that apply to your project.  Addition or removal of aquatic vegetation  Change in timing, duration and frequency of flow  Cleaning or maintenance of bridges or other structures	am and downstream area) and clearly identify the  tp://www.dfo-mpo.gc.ca/pnw-ppe/pathways-seque r project?  Placement of material or structures in v  Riparian Planting	nces/index-eng.html) that
Olude representative photos of affected area (including upstreated)  Potential Effects of the Proposed Project ave you reviewed the Pathways of Effects (PoE) diagrams (https://diagrams.com/piscribe the type of cause-effect relationships that apply to your Yes	am and downstream area) and clearly identify the tp://www.dfo-mpo.gc.ca/pnw-ppe/pathways-sequent project?  Placement of material or structures in will Riparian Planting  Streamside livestock grazing	nces/index-eng.html) that
clude representative photos of affected area (including upstreat)  Potential Effects of the Proposed Project  ave you reviewed the Pathways of Effects (PoE) diagrams (httpscribe the type of cause-effect relationships that apply to your  Yes No  yes, select the PoEs that apply to your project.  Addition or removal of aquatic vegetation  Change in timing, duration and frequency of flow  Cleaning or maintenance of bridges or other structures  Dredging  Excavation	am and downstream area) and clearly identify the ip://www.dfo-mpo.gc.ca/pnw-ppe/pathways-sequence r project?  Placement of material or structures in will Riparian Planting Streamside livestock grazing Structure removal	nces/index-eng.html) that
Clude representative photos of affected area (including upstreated)  Potential Effects of the Proposed Project  ave you reviewed the Pathways of Effects (PoE) diagrams (https://diagrams.com/ pscribe the type of cause-effect relationships that apply to your  Yes No  Yes No  yes, select the PoEs that apply to your project.  Addition or removal of aquatic vegetation  Change in timing, duration and frequency of flow  Cleaning or maintenance of bridges or other structures  Dredging  Excavation  Fish passage issues	am and downstream area) and clearly identify the tp://www.dfo-mpo.gc.ca/pnw-ppe/pathways-sequent project?  Placement of material or structures in with the project of the p	nces/index-eng.html) that
Potential Effects of the Proposed Project  ave you reviewed the Pathways of Effects (PoE) diagrams (https://exclusive.com/ ave you reviewed the Pathways of Effects (PoE) diagrams (https://exclusive.com/ ave you reviewed the Pathways of Effects (PoE) diagrams (https://exclusive.com/ ave you reviewed the Pathways of Effects (PoE) diagrams (https://exclusive.com/ ave you reviewed the Pathways of Effects (PoE) diagrams (https://exclusive.com/ ave you reviewed the Pathways of Effects (PoE) diagrams (https://exclusive.com/ ave you reviewed the Pathways of Effects (PoE) diagrams (https://exclusive.com/ ave you reviewed the Pathways of Effects (PoE) diagrams (https://exclusive.com/ ave you reviewed the Pathways of Effects (PoE) diagrams (https://exclusive.com/ ave you reviewed the Pathways of Effects (PoE) diagrams (https://exclusive.com/ ave you reviewed the Pathways of Effects (PoE) diagrams (https://exclusive.com/ ave you reviewed the Pathways of Effects (PoE) diagrams (https://exclusive.com/ ave you reviewed the Pathways of Effects (PoE) diagrams (https://exclusive.com/ ave you reviewed the Pathways of Effects (PoE) diagrams (https://exclusive.com/ ave you reviewed the Pathways of Effects (PoE) diagrams (https://exclusive.com/ ave you reviewed the Pathways of Effects (PoE) diagrams (https://exclusive.com/ ave you reviewed the Pathways of Effects (PoE) diagrams (https://exclusive.com/ ave you reviewed the Pathways of Effects (PoE) diagrams (https://exclusive.com/ ave you reviewed the Pathways of Effects (PoE) diagrams (https://exclusive.com/ ave you reviewed the Pathways of Effects (PoE) diagrams (https://exclusive.com/ ave you reviewed the Pathways of Effects (PoE) diagrams (https://exclusive.com/ ave you reviewed the Pathways of Effects (PoE) diagrams (https://exclusive.com/ ave you reviewed the Pathways of Effects (PoE) diagrams (https://exclusive.com/ ave you reviewed the Pathways of Effects (PoE) diagrams (https://exclusive.com/ ave you reviewed the Pathways of Effects (PoE) diagrams (https://exclusive.com/ ave	am and downstream area) and clearly identify the ip://www.dfo-mpo.gc.ca/pnw-ppe/pathways-sequence reproject?  Placement of material or structures in wire Riparian Planting Streamside livestock grazing Structure removal Use of explosives Use of industrial equipment	nces/index-eng.html) that
Potential Effects of the Proposed Project  ave you reviewed the Pathways of Effects (PoE) diagrams (https://exercise.com/ secribe the type of cause-effect relationships that apply to your  Yes No  yes, select the PoEs that apply to your project.  Addition or removal of aquatic vegetation  Change in timing, duration and frequency of flow  Cleaning or maintenance of bridges or other structures  Dredging  Excavation  Fish passage issues  Grading  Marine seismic surveys	am and downstream area) and clearly identify the tp://www.dfo-mpo.gc.ca/pnw-ppe/pathways-sequent project?  Placement of material or structures in with the project or structures in with the project or struct	nces/index-eng.html) that
Potential Effects of the Proposed Project ave you reviewed the Pathways of Effects (PoE) diagrams (https://escribe.the.type.of.cause-effect relationships that apply to your Yes. No yes, select the PoEs that apply to your project. Addition or removal of aquatic vegetation Change in timing, duration and frequency of flow Cleaning or maintenance of bridges or other structures Dredging Excavation Fish passage issues Grading Marine seismic surveys Organic debris management	am and downstream area) and clearly identify the ip://www.dfo-mpo.gc.ca/pnw-ppe/pathways-sequence reproject?  Placement of material or structures in use Riparian Planting Streamside livestock grazing Structure removal Use of explosives Use of industrial equipment Vegetation Clearing Wastewater management	nces/index-eng.html) that
Potential Effects of the Proposed Project ave you reviewed the Pathways of Effects (PoE) diagrams (https://diagrams.com/diagrams) Yes	am and downstream area) and clearly identify the ip://www.dfo-mpo.gc.ca/pnw-ppe/pathways-sequence reproject?  Placement of material or structures in use Riparian Planting Streamside livestock grazing Structure removal Use of explosives Use of industrial equipment Vegetation Clearing Wastewater management	nces/index-eng.html) that
Potential Effects of the Proposed Project ave you reviewed the Pathways of Effects (PoE) diagrams (https://escribe.the.type.of.cause-effect relationships that apply to your yes, select the PoEs that apply to your project.  Addition or removal of aquatic vegetation  Change in timing, duration and frequency of flow  Cleaning or maintenance of bridges or other structures  Dredging Excavation  Fish passage issues  Grading Marine seismic surveys  Organic debris management  Placement of marine finfish aquaculture site	am and downstream area) and clearly identify the ip://www.dfo-mpo.gc.ca/pnw-ppe/pathways-sequence reproject?  Placement of material or structures in with Riparian Planting Streamside livestock grazing Structure removal Use of explosives Use of industrial equipment Vegetation Clearing Wastewater management Water extraction	nces/index-eng.html) that

Fisheries and Oceans Canada	Pêches et Océans Canada	Canad
WIII the fish habitat alteration be peri	manent"? C Yes	No C Unknown
is there likely to be destruction or los	s of habitat used by t	fish? C Yes @ No C Unknown
What is the footprint (area in square	meters) of your proj	ject that will take place below the high water mark*?
PVC pipe below the high water mark	in water mark is estin k embedded in a 600 Ing used below the hi	nigh water mark it a clear stone for nine hadding and ringran and katom intokat star
is your project likely to change water		
If your project includes withdrawing	water, provide source	
The dry hydrant system will be without and to meet the needs of the portable	rawing water from the pump the local fire	he Ottawa River. The required rate is 700 gpm to satisfy the requirements of NFPA 1- e department will use. The volume of the local fire department's fire truck is 500 nergency situations (i.e. fire fighting). The total volume and duration will depend on
If your project includes water control	structure, provide the	ne % of flow reduction.
if your project includes discharge of	water, provide source	e, volume and rate.
VIII your project cause death of fish? If yes, how many fish will be killed (fo		No ( Unknown provide average)? What species and lifestages?
Are there aquatic species at risk (http	://www.sararegistry.	.gc.ca/species/aquatic_e.cfm) present? If yes, which ones?
Aquatic species at risk listed under: location include: - Northern Brook Lamprey (GLStL pr - River Redhorse (Special Concern).	Schedule 1 of the Sp opulation) (Special C led to Schedule 1 of	pecies at Risk Act and potentially present in the Ottawa River at the project
/hat is the time frame of your project	?	
he construction will start on 04/01/2	015	and end by 06/26/2015
applicable, the operation will start or	06/26/2015	and end by 01/01/2025
f applicable, provide schedule for the	maintenance	
	No. of the last of	
applicable, provide schedule for dec	commissioning	
In AIDNAIC in terrested to december	solonian his ONSE Th	he hydrant system may remain in place to provide a water supply while the facility is

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under Institutional Controls.		
Are there additional effects to fish and fis	n habitat that will happen outside of the time period	ds identified above? C Yes @ No
(If yes, provide details)		
•		
Have you considered and incorporated a	options for redesigning and relocating your projec	ct to avoid negative effects to fish and fish habitat?
€ Yes ← No		an an ana sandansa astronom en tract entre statt settenter?
If yes, describe.		
Overland piping was also considered h	ng existing intake pipes however design proved owever this option is not considered feasible du requirements to the NPDWF and was historically	e to ice build-up on the Ottawa River surface.
Have you consulted DFO's Measures to a eng.html) to determine which measures a	wold Harm to Fish and Fish Habitat (http://www.df pply to your project?	o-mpo.gc.ca/pnw-ppe/measures-mesures/index-
● Yes ← No		
Will you be incorporating applicable meas	ures into your project? @ Yes ( No	
If yes, identify which ones. If No, identify	which ones and provide reasons.	
design of the intake pipe and strainer is p	to the riverbed and is backfill from the original con erpendicular to the watercourse. Additionally the a round to gain access back to the road without muc is water inlet to the site.	area must be of sufficient size for fire department
1b- Contaminant and Spill Management: immediately in the event of a sediment n	A response plan is in place (noted in the design ar lease or spill of a deleterious substance. Emergen	nd internal CNL protocols) and will be implemented ncy spill kits will be on site.
2- Erosion and Sediment Control The design includes an Erosion and Sed of the project.	ment Control Plan for the site that minimizes risk o	of sedimentation of the waterbody during all phases
3- Shoreline Re-Vegetation and Stabiliza	ion: The design requires the clearing of any veget	lation to be kept to a minimum.
4- Fish Protection: The horizontal strains over the strainer and a rip-rap pad under	r has been designed for the protection of fish folio the intake to reduce attractant habitat.	wing the DFO guidelines, placement of wire mesh
5- Operation of Machinery: All equipmer	t will arrive clean and will not be cleaned nor refue	eled at the site.
lave you considered and incorporated ac egative effects to fish and fish habitat?	ditional best practices and mitigation measures re-	commended in relevant guidelines to avoid
No @ Yes		
If Yes, include a list of the guidelines be	ng used to avoid negative effects to fish and fish h	abitat.
in accordance with best management plants shall be installed. Construction a	ractices for erosion and sediment control, turbid id maintenance requirements for erosion and se	lity curtains, silt fences and strawable check diment control comply with OPSS 805.
re there any relevant best practices or m	tigation measures that you are unable to incorpora	ate? ( Yes ( No
(If yes, Identify which ones.)		
liming - Contractors are prepared to b	gin the installation of the dry hydrant system or	nce the ground thaws from winter learly April

Canada

an unu follow annonniato Timing Mindows Phito-Humau dia mas as sab	pnw-ppe/timing-periodes/index-eng.html) for all your project activities
elow the High Water Mark*?	hua-bheanning-bendues/moek-eng-man) for an your broless accusines
Yes @ No	
If no, provide explanations.)	
	quiet (unoccupied) for many years, but the facility is now occupied fiten with hazardous materials). The urgent safety need to have this ancy at the facility. Contractors are standing by to install the system roject also meets Canadian Nuclear Safety Commission license e licensee of this Class 1 Nuclear Facility. Due to the safety needs,
What residual effects to fish and fish habitat do you foresee after taking above?	into account the avoidance and mitigation measures described
) Signature	
Principal de la constitución de la	ation given on this form is to the best of my knowledge, correct and completed
Principal de la constitución de la	ition given on this form is to the best of my knowledge, correct and completed
And the second s	ition given on this form is to the best of my knowledge, correct and completed
	ition given on this form is to the best of my knowledge, correct and completed
Action of the second se	ntion given on this form is to the best of my knowledge, correct and completed.
Action of the second se	ation given on this form is to the best of my knowledge, correct and completed.  13/03/2015  Date
Christine Gallagher (print name) certify that the information	13/03/2015
Christine Gallagher (print name) certify that the information	13/03/2015

Fisheries and Oceans Canada Pêches et Océans Canada

\*All definitions are provided in Section G of the Guidance on Submitting a Request for Review



Fisheries and Oceans Canada

Peches et Océans Canada Canada

#### **Guidance on Submitting a Request for Review**

This document explains the requirements for a Request for Review by DFO under the fisheries protection provisions of the Fisheries Act. To determine whether you should request a review, follow the steps for proponent Self-Assessment on DFO's Projects Near Water webpage (http://www.dfo-mpo.gc.ca/pnw-ppe/index-eng.html).

Incomplete Requests for Review will be returned to the applicant without review by DFO. All information requested must be provided. If you attach documents to your application with additional information, you must still provide appropriate summaries in the spaces provided on the application document or your application will be considered incomplete.

#### Section A: Contact Information

Provide the full legal name of the proponent and primary mailing address for the proponent. When the proponent is a company, identify the full legal registered name of the company.

If applicable, also provide the contact information of the duly authorized representative of the proponent. Please note that a copy of correspondence to Contractor/Agency/Consultant will also be sent to the Proponent.

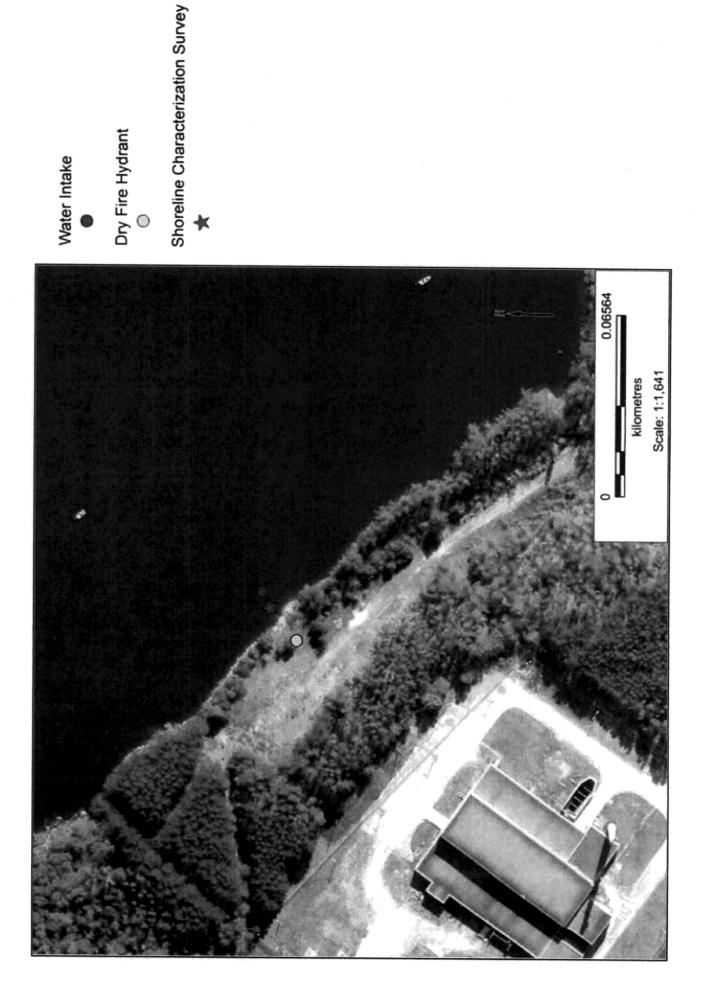
Section B: Description of Project

This information is meant to provide background about the proposed project. All components of the proposed project in or near water, must be described.

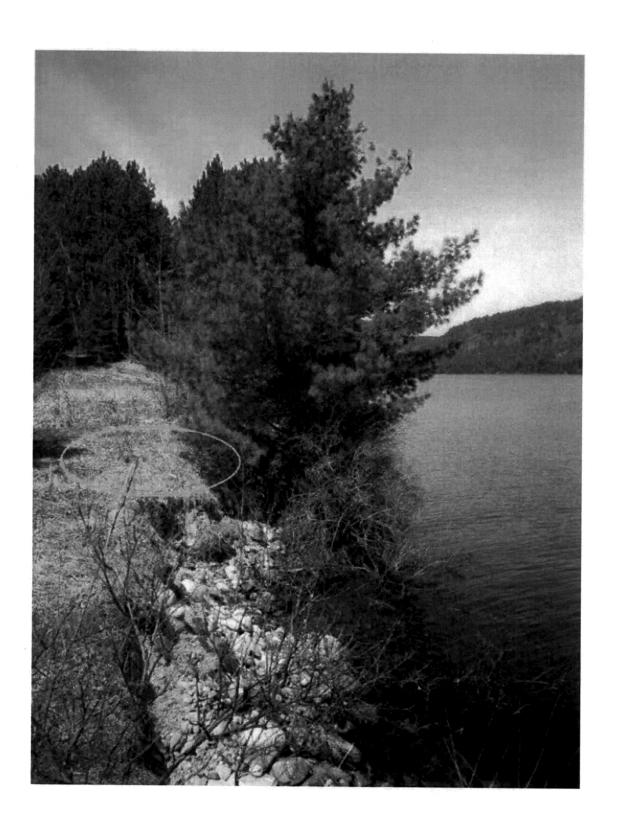
Proponents should provide information about all appropriate phases of the project, i.e., the construction, operation, maintenance and closure phases for the proposed project.

All details about the construction methods to be used, associated infrastructure, permanent and temporary structures, building materials to be used, machinery and equipment to be used must also be provided. For example, the construction of permanent structures may require the construction of temporary structures such as temporary dikes, in conjunction with other associated activities like the withdrawal of water, land clearing, excavation, grading, infilling, blasting, dradging, installing structures, draining or removing debris from water. Similarly, the equipment and materials to be used may include hand tools, backhoes, gravel, blocks or armor stone (provide the average diameter), concrete (indicate if pre-cast or poured in-water), steel beams or wood.

When physical structures in or near water are proposed, provide the plan and specifications of those works which would require a review.



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